



6-23-06

IFW

03500.017541

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
HIDEYUKI SUGIOKA, ET AL.) Examiner: Unassigned
Application No.: 10/526,957) Group Art Unit: 3753
Filed: March 4, 2005)
For: LIQUID DELIVERY DEVICE) June 23, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the following U.S. Applications:

	<u>INVENTOR(S)</u>	<u>APPLICATION NO.</u>	<u>FILING DATE</u>
SMA ↓	Takeo Yamazaki, et al.	11/030,289	January 7, 2005
	Takeo Yamazaki, et al.	10/480,045	December 9, 2003
	Takeo Yamazaki, et al.	10/480,040	December 9, 2003

CONCLUSION

It is respectfully requested that the above information be considered by the Examiner.

S Hepperle

1/07

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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
HIDEYUKI SUGIOKA, ET AL.) Examiner: Unassigned
Application No.: 10/526,957) Group Art Unit: 3753
Filed: March 4, 2005)
For: LIQUID DELIVERY DEVICE) June 5, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed Japanese documents and articles are also enclosed.

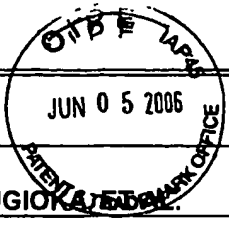
The concise explanations of relevance for the non-English documents are provided by their accompanying English-language abstracts and the relevant disclosure in the Background Art section of the specification.

The Examiner's attention is also directed to the following U.S. Application:

<u>INVENTOR(S)</u>	<u>APPLICATION NO.</u>	<u>FILING DATE</u>
<i>JE</i> Takahiro Ezaki, et al.	11/285,069	November 23, 2005

S Hepperle

1/07



FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.017541		APPLICATION NO. 10/526,957	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT HIDEYUKI SUGIOKA, ET AL.			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE March 4, 2005		GROUP 3753	
Submitted to the PTO: June 5, 2006					
U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS SUBCLASS FILING DATE IF APPROPRIATE
<i>SAH</i>		6,533,400	03/2003	Kudo, et al.	347 63
<i>SAH</i>		2005/0265899	12/2005	Imamura, et al.	422 100
<i>SAH</i>		2006/0054226	03/2006	Yamazaki, et al.	137 827
FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS SUBCLASS TRANSLATION YES/NO/ OR ABSTRACT
<i>SAH</i>		10/337173	12/1998	Japan	— — Abstract
<i>SAH</i>		5-1669	01/1993	Japan	— — Abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)					
<i>SAH</i>		J.H. Tsai, et al., "A Thermal Bubble Actuated Micro Nozzle-Diffuser Pump", Proceedings of the 14th, IEEE International Conference on Micro Electro Mechanical Systems, pp. 409-412 (2001).			
<i>SAH</i>		J.S. Ko, et al., "Development and Application of a Laterally Driven Electromagnetic Microactuator", Phys. Lett., Vol. 81, No. 3, pp. 547-549 (July 15, 2002).			
<i>SAH</i>		J. Qiu, et al., "A Centrally-Clamped Parallel-Beam Bistable MEMS Mechanism", Proceedings of MEMS, pp. 353-356 (2001).			
EXAMINER S Hepperle		DATE CONSIDERED 1/07			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Submitted to the PTO: March 4, 2005			ATTY DOCKET NO. 03500.017541		APPLICATION NO. 10/526957 To be assigned D.01 Rec'd PCT/PTC 04 MAR 2005		
			APPLICANTS HIDEYUKI SUGIOKA, ET AL.		FILING DATE March 4, 2005		
					GROUP To be assigned		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SA</i>		2,893,416	07/1959	Hegstad	137	119	
		3,082,748	03/1963	Vogel	121	123	
		3,112,768	12/1963	Thompson	137	625.5	
		3,768,521	10/1973	Brychta, et al.	137	832	
		6,131,880	10/2000	Hahn, et al.	251	129.16	
<i>SA</i>		6,283,440	09/2001	Evans	251	11	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>SA</i>		WO 02/33268	04/2002	PCT	—	—	
<i>SA</i>		WO 02/40874	05/2002	PCT	—	—	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER		<i>S Hepperle</i>			DATE CONSIDERED <i>1/07</i>		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.